May 16, 1839.

JOHN GEORGE CHILDREN, Esq., V.P., in the Chair.

A paper was read, entitled "On the visibility of certain rays beyond the ordinary red rays of the Solar Spectrum." By J. S. Cooper, Esq., in a letter to Michael Faraday, Esq., D.C.L., F.R.S., &c., &c. Communicated by Dr. Faraday.

The author states his having observed an extension of the red portion of the solar spectrum, obtained in the ordinary way, beyond the space it occupies when seen by the naked eye, by viewing it through a piece of deep blue cobalt glass. He finds that the part of the spectrum thus rendered perceptible to the right is crossed by two or more very broad lines or bands: and observes that the space occupied by the most powerful calorific rays, coincides with the situation of the red rays thus rendered visible by transmission through a blue medium. The author expresses a regret that he has not had sufficient leisure to pursue the investigation of these phænomena.

A paper was also in part read, entitled, "Fifth letter on Voltaic Combinations, with some account of the effects of a large constant Battery:" addressed to Michael Faraday, Esq., D.C.L., F.R.S., &c. By John F. Daniell, Esq., F.R.S.

The Society then adjourned over the Whitsun Recess, to meet again on the 30th instant.